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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/805,084	03/19/2004	Walter J. Smith	1370.002A	7707
	7590 12/28/2006 ENBERG FARLEY &	EXAMINER		
5 COLUMBIA	CIRCLE	YAO, SAMCHUAN CUA		
ALBANY, NY 12203			ART UNIT	PAPER NUMBER
			1733	
				-
SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS 12/28		12/28/2006	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

,	Application No.	Applicant(s)	
	10/805,084	SMITH, WALTER J.	
Office Action Summary	Examiner	Art Unit	
	Sam Chuan C. Yao	1733	
The MAILING DATE of this communication	appears on the cover sheet wi	th the correspondence address	
Period for Reply A SHORTENED STATUTORY PERIOD FOR RI WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communicatio - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by s Any reply received by the Office later than three months after the interpret process.	G DATE OF THIS COMMUNIC FR 1.136(a). In no event, however, may a ron. eriod will apply and will expire SIX (6) MON statute, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication. EANDONED (35 U.S.C. § 133).	
earned patent term adjustment. See 37 CFR 1.704(b).			
1) Responsive to communication(s) filed on <u>(</u>	This action is non-final. owance except for formal matte	•	
Disposition of Claims			
4) ☑ Claim(s) 1-81 is/are pending in the applica 4a) Of the above claim(s) 1-72,74 and 75 is 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 73 and 76-81 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction as	s/are withdrawn from considera	ation.	
Application Papers		•	
9) The specification is objected to by the Exar 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the co	accepted or b) objected to be the drawing(s) be held in abeyan brrection is required if the drawing(ce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119	•		
12) Acknowledgment is made of a claim for form a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	nents have been received. nents have been received in Appriority documents have been ureau (PCT Rule 17.2(a)).	pplication No received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948	Paper No(s	ummary (PTO-413))/Mail Date	
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:	formal Patent Application —·	

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 73 and 77-81 are rejected under 35 U.S.C. 102(b) as anticipated by Araki et al (US 3,702,054) for reasons of record set forth in the last office action in numbered paragraph 2.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 76 is rejected under 35 U.S.C. 103(a) as being unpatentable over Araki et al (US 3,702,054) in view of anyone of JP 2000045174 A, JP 352148219 A and JP 60162868 A for reasons of record set forth in the last office action in numbered paragraph 4.

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Response to Arguments

5. Applicant's arguments filed on 12-04-06 have been fully considered but they are not persuasive.

In response to Counsel's argument on page 3 regarding the efficiency of turbine being affected by the cross-sectional shape of brush seal filaments, it is respectfully submitted that Counsel's argument is not fully commensurate with the scope of the presently recited claims. Independent claim 73 is NOT directed to a turbine brush seal. Rather, this claim 73 as presently recited only requires "A [single] flexible filament ..." (word inserted), which may be used as an element of a "turbine brush seal".

On page 3, Counsel argued that "Araki et al. does not meet the definition of "n-point star" given in the present application. Examiner strongly disagrees. The star-shaped fibers of Araki et al are reasonably expected to have a commonly uinderstood configuration of a star. That's precisely one of the main reasons why a graphic or pictorial illustration of the star-shaped fibers has not been provided. Additionally, there's nothing special about Applicant's n-point star as defined in the specification and illustrated in figures 13-16. Applicant's n-point stars basically are a typical or common configuration of a star. If the star-shaped fibers of Araki et al do not meet Applicant's n-point stars, then how do star-shaped fibers of Araki et al look like? It is suggested for Counsel to provide a single counter example, where a filament, which has been described to have a star-shaped cross-section (as this phrase would be reasonably understood in the art)

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and still fails to meet Applicant's definition of an n-point star. As for Counsel's argument that "Araki et al. actually teaches away from the use of a star-shaped cross-section.", While star-shaped carbon fibers are less preferred, Examiner disagrees with Counsel's assertion. In any event, this does not change the fact that, as correctly acknowledged and characterized by Applicant, Araki et al "... discloses that common shapes for carbon fibers include star shapes."

(emphasis and bold-face added).

In summary, the claimed n-point star filament basically embraces a "common" cross-sectional configuration for carbon fibers, which is a star cross-sectional shape.

Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sam Chuan C. Yao whose telephone number is (571) 272-1224. The examiner can normally be reached on Monday-Friday with second Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Richard Crispino can be reached on (571) 272-1171. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Sam Chuan C. Yao Primary Examiner Art Unit 1733

Scy 12-18-06